

CLAIMS

What is claimed is:

1. A method for non-interferingly transmitting spread spectrum signals in a wireless communication system, the wireless system having spread spectrum and narrow band users, the method comprising:

from a selected base station, producing a spread spectrum signal for transmission in a selected sector of the base station;

notch filtering the produced spread spectrum signal at frequencies used by narrow band users located in the selected sector and sectors of base stations other than the selected base station being adjacent to the selected sector; and

transmitting the notch filtered signal in the selected sector.

2. The method of claim 1 further comprising:

the selected base station transmitting a signal to a narrow band used in the selected sector using a frequency of the notched filtered frequencies of the produced spread spectrum signal.

3. The method of claim 1 wherein the notch filtering is performed by a comb notch filter.

4. The method of claim 3 wherein a controller controls frequencies notched by the comb notch filter.

5. The method of claim 1 wherein the narrow band users are users of a time division multiple access system.

6. The method of claim 1 wherein the narrow band users are users of a microwave system.